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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/016,986

DATE: 11/07/2002 P.6
TIME: 14:39:55

Input Set : A:\313.2C1.TXT

Output Set: N:\CRF4\11072002\J016986.raw

```

4 <110> APPLICANT: Burton, Dennis R
5     Barbas, Carlos F
6     Lerner, Richard A
9 <120> TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
10    TO HUMAN IMMUNODEFICIENCY VIRUS
13 <130> FILE REFERENCE: 313.2CON1
15 <140> CURRENT APPLICATION NUMBER: US 10/016,986
16 <141> CURRENT FILING DATE: 2001-12-12
18 <150> PRIOR APPLICATION NUMBER: US 09/149,898
19 <151> PRIOR FILING DATE: 1998-09-08
21 <150> PRIOR APPLICATION NUMBER: US 08/899,575
22 <151> PRIOR FILING DATE: 1997-07-24
24 <150> PRIOR APPLICATION NUMBER: US 08/276,852
25 <151> PRIOR FILING DATE: 1994-07-18
27 <150> PRIOR APPLICATION NUMBER: US 08/178,302
28 <151> PRIOR FILING DATE: 1994-01-06
30 <150> PRIOR APPLICATION NUMBER: PCT/US93/09328
31 <151> PRIOR FILING DATE: 1993-09-30
33 <150> PRIOR APPLICATION NUMBER: US 07/954,148
34 <151> PRIOR FILING DATE: 1992-09-30
36 <160> NUMBER OF SEQ ID NOS: 176
38 <170> SOFTWARE: FastSEQ for Windows Version 4.0
40 <210> SEQ ID NO: 1
41 <211> LENGTH: 173
42 <212> TYPE: DNA
43 <213> ORGANISM: Artificial Sequence
45 <220> FEATURE:
46 <223> OTHER INFORMATION: Synthesized
48 <400> SEQUENCE: 1
49 ggccgcaaatt tctatttcaa ggagacagtc ataataaat acctattgcc tacggcagcc 60
50 gctggattgt tattactcgc tgcccaacca gccatggccc aggtgaaact gctcgagatt 120
51 tctagactag ttaccgcgtac gacgttcgcg actacggttc ttaatagaat tcg      173
53 <210> SEQ ID NO: 2
54 <211> LENGTH: 173
55 <212> TYPE: DNA
56 <213> ORGANISM: Artificial Sequence
58 <220> FEATURE:
59 <223> OTHER INFORMATION: Synthesized
61 <400> SEQUENCE: 2
62 tcgacgaatt ctattaagaa ccgtagtccg gaacgtcgta cgggtaacta gtctagaaat 60
63 ctcgagcagt ttcacctggg ccatggctgg ttgggcagcg agtaataaca atccagcggc 120
64 tgccgtaggc aataggtatt tcattatgac tgtctccttg aatagaatt tgc      173
66 <210> SEQ ID NO: 3

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67 <211> LENGTH: 131
68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Synthesized
74 <400> SEQUENCE: 3
75 tgaattctaa actagtcgcc aaggagacag tcataatgaa atacctattg cctacggcag 60
76 ccgctggatt gttattactc gctgcccaac cagccatggc cgagctcgtc agttctagag 120
77 ttaagcggcc g 131
79 <210> SEQ ID NO: 4
80 <211> LENGTH: 139
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Synthesized
87 <400> SEQUENCE: 4
88 tcgacggccg cttaactcta gaactgacga gctcggccat ggctggttgg gcagcgagta 60
89 ataacaatcc agcggctgcc gtaggcaata ggtatttcat tatgactgtc tccttggcga 120
90 ctagttaga attcaagct 139
92 <210> SEQ ID NO: 5
93 <211> LENGTH: 10
94 <212> TYPE: PRT
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Synthesized
100 <400> SEQUENCE: 5
101 Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser
102 1 5 10
105 <210> SEQ ID NO: 6
106 <211> LENGTH: 26
107 <212> TYPE: PRT
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Synthesized
113 <400> SEQUENCE: 6
114 Met Lys Tyr Leu Leu Pro Thr Ala Ala Ala Gly Leu Leu Leu Leu Ala
115 1 5 10 15
116 Ala Gln Pro Ala Met Ala Gln Val Lys Leu
117 20 25
120 <210> SEQ ID NO: 7
121 <211> LENGTH: 23
122 <212> TYPE: PRT
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Synthesized
128 <400> SEQUENCE: 7
129 Met Lys Tyr Leu Leu Pro Thr Ala Ala Ala Gly Leu Leu Leu Leu Ala
130 1 5 10 15
131 Ala Gln Pro Ala Met Ala Glu

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132          20
135 <210> SEQ ID NO: 8
136 <211> LENGTH: 198
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Synthesized
143 <400> SEQUENCE: 8
144 tgttgacaat taatcatcgg ctcgtataat gtgtggaatt gtgagcggat aacaatttca 60
145 cacaggagga aggatccatg aaatacctat tgcctacggc agccgctgga ttgttattac 120
146 tcgctgcca accagccatg gccgagctcg gtcggtcggc cctcgagggt cggtcggtct 180
147 ctagagttaa gcggccgc                                     198
149 <210> SEQ ID NO: 9
150 <211> LENGTH: 198
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Synthesized
157 <400> SEQUENCE: 9
158 gcggccgctt aactctagag accgaccgac cctcgaggac cgaccgaccg agctcggcca 60
159 tggctggttg ggcagcgagt aataacaatc cagcggctgc cgtaggcaat aggtatttca 120
160 tggatccttc ctctgtgtg aaattgttat ccgctcacia ttccacacat tatacgagcc 180
161 gatgattaat tgtcaaca                                     198
163 <210> SEQ ID NO: 10
164 <211> LENGTH: 24
165 <212> TYPE: PRT
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Synthesized
171 <400> SEQUENCE: 10
172 Met Lys Thr Leu Leu Pro Thr Ala Ala Ala Gly Leu Leu Leu Leu Ala
173 1          5          10          15
174 Ala Gln Pro Ala Met Ala Glu Leu
175          20
178 <210> SEQ ID NO: 11
179 <211> LENGTH: 220
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Synthesized
186 <400> SEQUENCE: 11
187 tgttgacaat taatcatcgg ctcgtataat gtgtggaatt gtgagcggat aacaatttca 60
188 cacaggagga aggatccatg aaatacctat tgcctacggc agccgctgga ttgttattac 120
189 tcgctgcca accagccatg gccaggtga aactgctcga gggtcggtcg gtctctagac 180
190 ggtcggtcgg tcaactagtca tcatcatcat cattaagcta                                     220
192 <210> SEQ ID NO: 12
193 <211> LENGTH: 220
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial Sequence

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197 <220> FEATURE:

198 <223> OTHER INFORMATION: Synthesized

200 <400> SEQUENCE: 12

201 tagcttaatg atgatgatga tgactagtga cgcaccgacc gtctagagac cgaccgaccc 60

202 tcgagcagtt tcacctgggc catggctggt tgggcagcga gtaataacaa tccagcggct 120

203 gccgtaggca ataggtatct catggatcct tctcctgtg tgaaattgtt atccgctcac 180

204 aattccacac attatacgag ccgatgatta attgtcaaca 220

206 <210> SEQ ID NO: 13

207 <211> LENGTH: 28

208 <212> TYPE: PRT

209 <213> ORGANISM: Artificial Sequence

211 <220> FEATURE:

212 <223> OTHER INFORMATION: Synthesized

214 <400> SEQUENCE: 13

215 Met Lys Thr Leu Leu Pro Thr Ala Ala Ala Gly Leu Leu Leu Leu Ala

216 1 5 10 15

217 Ala Gln Pro Ala Met Ala Gln Val Lys Leu Leu Glu

218 20 25

221 <210> SEQ ID NO: 14

222 <211> LENGTH: 7

223 <212> TYPE: PRT

224 <213> ORGANISM: Artificial Sequence

226 <220> FEATURE:

227 <223> OTHER INFORMATION: Synthesized

229 <400> SEQUENCE: 14

230 Thr Ser His His His His His

231 1 5

234 <210> SEQ ID NO: 15

235 <211> LENGTH: 32

236 <212> TYPE: DNA

237 <213> ORGANISM: Artificial Sequence

239 <220> FEATURE:

240 <223> OTHER INFORMATION: Synthesized

242 <400> SEQUENCE: 15

243 ggccgcaaat tctatttcaa ggagacagtc at 32

245 <210> SEQ ID NO: 16

246 <211> LENGTH: 36

247 <212> TYPE: DNA

248 <213> ORGANISM: Artificial Sequence

250 <220> FEATURE:

251 <223> OTHER INFORMATION: Synthesized

253 <400> SEQUENCE: 16

254 aatgaaatac ctattgccta cggcagccgc tggatt 36

256 <210> SEQ ID NO: 17

257 <211> LENGTH: 32

258 <212> TYPE: DNA

259 <213> ORGANISM: Artificial Sequence

261 <220> FEATURE:

262 <223> OTHER INFORMATION: Synthesized

RAW SEQUENCE LISTING

DATE: 11/07/2002

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Input Set : A:\313.2C1.TXT

Output Set: N:\CRF4\11072002\J016986.raw

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264 <400> SEQUENCE: 17
265 gttattactc gctgccaac cagccatggc cc 32
267 <210> SEQ ID NO: 18
268 <211> LENGTH: 29
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Synthesized
275 <400> SEQUENCE: 18
276 cagtttcacc tgggccatgg ctggttggg 29
278 <210> SEQ ID NO: 19
279 <211> LENGTH: 40
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial Sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Synthesized
286 <400> SEQUENCE: 19
287 cagcgagtaa taacaatcca gcggctgccg taggcaatag 40
289 <210> SEQ ID NO: 20
290 <211> LENGTH: 38
291 <212> TYPE: DNA
292 <213> ORGANISM: Artificial Sequence
294 <220> FEATURE:
295 <223> OTHER INFORMATION: Synthesized
297 <400> SEQUENCE: 20
298 gtatttcatt atgactgtct ccttgaaata gaatttgc 38
300 <210> SEQ ID NO: 21
301 <211> LENGTH: 40
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Synthesized
308 <400> SEQUENCE: 21
309 aggtgaaact gctcgagatt tctagactag ttaccggtac 40
311 <210> SEQ ID NO: 22
312 <211> LENGTH: 38
313 <212> TYPE: DNA
314 <213> ORGANISM: Artificial Sequence
316 <220> FEATURE:
317 <223> OTHER INFORMATION: Synthesized
319 <400> SEQUENCE: 22
320 cggaacgtcg tacgggtaac tagtctagaa atctcgag 38
322 <210> SEQ ID NO: 23
323 <211> LENGTH: 33
324 <212> TYPE: DNA
325 <213> ORGANISM: Artificial Sequence
327 <220> FEATURE:
328 <223> OTHER INFORMATION: Synthesized
330 <400> SEQUENCE: 23

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/016,986

DATE: 11/07/2002
TIME: 14:39:56

Input Set : A:\313.2C1.TXT
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:141; Xaa Pos. 1

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/016,986

DATE: 11/07/2002

TIME: 14:39:56

Input Set : A:\313.2C1.TXT

Output Set: N:\CRF4\11072002\J016986.raw

L:2883 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2887 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:141
L:2888 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141 after pos.:0
L:3162 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:3165 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:152
L:3277 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:3280 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:154